

PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 272 AND LUMS ROAD IN CECIL COUNTY. MD 272 IS ASSUMED TO RUN IN A NORHT-SOUTH DIRECTION.

INTERSECTION OPERATION

THE EXISTING EIGHT-PHASE, FULLY ACTUATED NEMA CONTROLLER HOUSED IN A BASE MOUNTED CABINET IS BEING USED. THE CONTROLLER CURRENTLY OPERATES AS A SIX-PHASE FULL-TRAFFIC-ACTUATED CONTROLLER WITH AN EXCLUSIVE-PERMISSIVE LEFT TURN PHASE FOR N.B. AND S.B. MD 272. THE EXISTING PHASING OPERATION WILL NOT CHANGE.

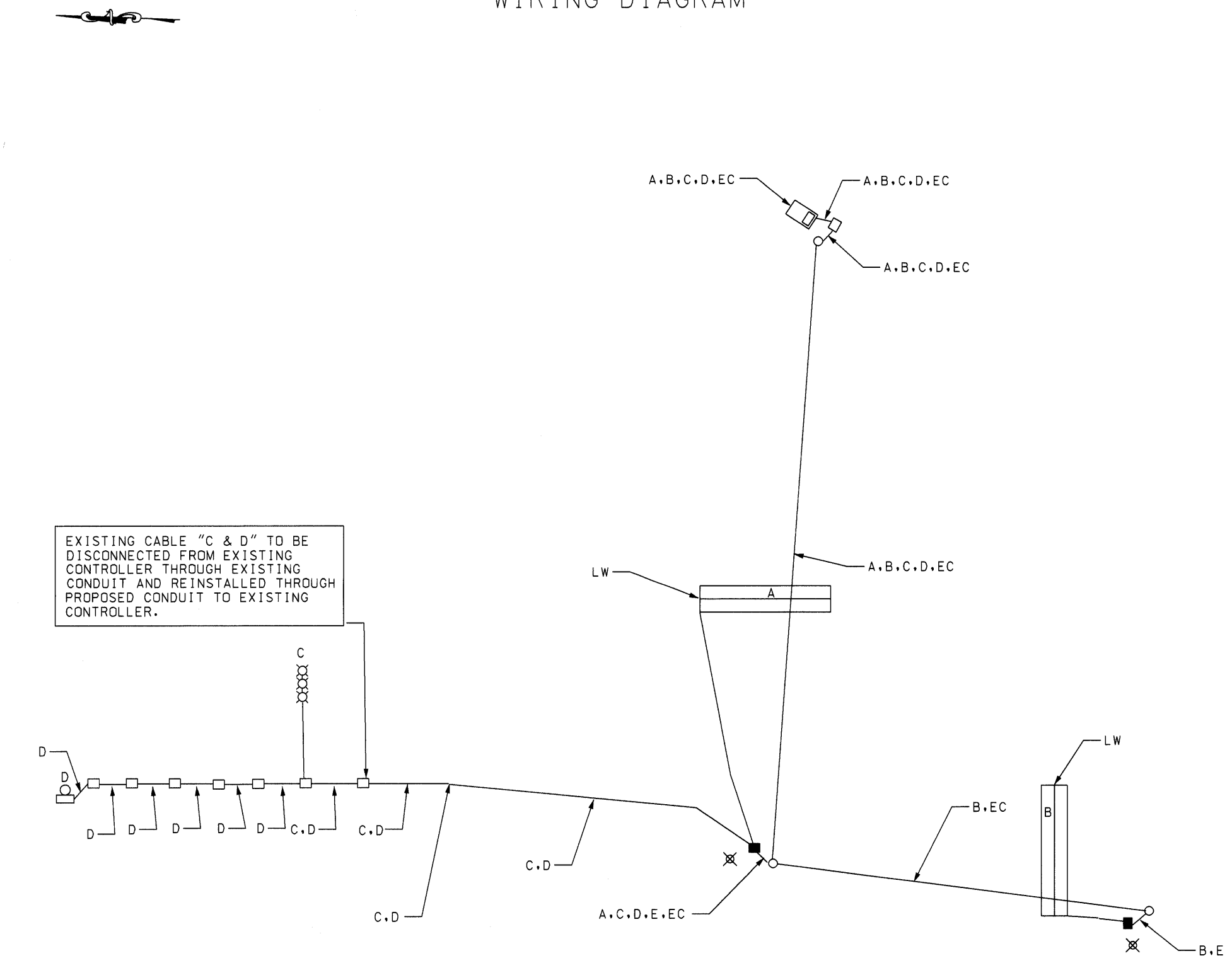
PHASING CHART

PHASING WILL NOT CHANGE

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR ALL EQUIPMENT SHALL HAVE CATALOG CUTS SUBMITTED TO OOTS FOR APPROVAL PRIOR TO INSTALLATION.		
ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC
5001	2 EA	FURNISH AND INSTALL HEAT APPLIED PERMANENT THERMOPLASTIC PAVEMENT MARKING ARROW (LEFT/THRU)
5005	15 LF	FURNISH AND INSTALL 24 IN. WHITE HEAT APPLIED PERMANENT THERMOPLASTIC PAVEMENT MARKING
8042	2 EA	FURNISH AND INSTALL CONDUIT BEND IN EXISTING FOUNDATION
8048	LS	REMOVE AND DISPOSE OF EXISTING EQUIPMENT
8060	20 LF	FURNISH AND INSTALL NO. 6 AWG STRANDED BARE COPPER WIRE
8062	20 LF	FURNISH AND INSTALL 1 IN. GALVANIZED CONDUIT DETECTOR SLEEVE
8068	20 LF	FURNISH AND INSTALL 1 IN. LIQUID TIGHT, FLEXIBLE, NON-METALLIC CONDUIT FOR DETECTOR SLEEVE
8072	2 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8080	2 EA	FURNISH AND INSTALL GROUND ROD 3/4 IN. DIAMETER X 10 FT. LENGTH
8081	600 LF	FURNISH AND INSTALL ELECTRICAL CABLE 2-CONDUCTOR ALUMINUM SHIELDED
8087	960 LF	FURNISH AND INSTALL LOOP WIRE ENCASED IN 1/4 IN. FLEXIBLE TUBING (NO. 14 AWG)
8088	260 LF	FURNISH AND INSTALL SAW CUT FOR LOOP DETECTOR
8091	160 LF	FURNISH AND INSTALL 2 IN. SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - TRENCHED
---	920 LF	REMOVE AND REINSTALL EXISTING CABLE
---	1 EA	FURNISH AND INSTALL R3-6 SIGN (30" X 36") SPAN WIRE MOUNT

WIRING DIAGRAM



WIRING KEY

- A-B 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.) ALUMINUM SHIELDED
- C EXISTING MICRO-LOOP PROBE LEAD-1N
- D 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- E STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
- EC EXISTING CABLE
- LW LOOP WIRE (NO. 14 A.W.G.)
- X GROUND ROD

EQUIPMENT LIST "A"

A. APPROVED SHA EQUIPMENT TO BE PURCHASED BY THE DEVELOPER AND INSTALLED BY THE CONTRACTOR. ALL EQUIPMENT IN THIS LIST SHALL HAVE CATALOG CUTS SUBMITTED FOR APPROVAL PRIOR TO INSTALLATION.

ITEM NO.	QUANTITY	DESCRIPTION
NONE		

CONTACT PERSONS FOR DISTRICT 2 ARE AS FOLLOWS:

MR. ROBERT KIEL  
ASSISTANT DISTRICT ENGINEER - TRAFFIC  
(410) 778-3061

MR. TERRY WRIGHT  
ASSISTANT DISTRICT ENGINEER - MAINTENANCE  
(410) 778-3061

MR. BARRY CLOTHIER  
ASSISTANT DISTRICT ENGINEER - UTILITIES  
(410) 778-3061

CONTACTS FOR OFFICE OF TRAFFIC AND SAFETY

MR. RICHARD DAFF, SR.  
CHIEF, TRAFFIC OPERATIONS  
(410) 787-7630

MR. EUGENE BAILEY  
TEAM LEADER SIGN OPERATIONS  
(410) 787-7676

MR. ROBERT SNYDER  
ASSISTANT DIVISION CHIEF,  
TRAFFIC OPERATIONS  
(410) 787-7631

MS. DARLENE EIDE  
SUPPLY OFFICE  
SIGNAL SHOP WAREHOUSE  
(410) 787-7668

MR. ED RODENHIZER  
TEAM LEADER SIGNAL OPERATIONS  
(410) 787-7652

EQUIPMENT LIST "C"

C. EXISTING EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND DELIVERED TO THE STATE HIGHWAY ADMINISTRATION, 7491 CONNELLEY DRIVE, HANOVER, MARYLAND 21076. THE CONTRACTOR SHALL NOTIFY THE SHA AT (410) 787-7652 AT LEAST THREE DAYS IN ADVANCE OF DELIVERY.

ITEM NO.	QUANTITY	DESCRIPTION
NONE		

ALL SIGNAL EQUIPMENT TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR

TRAFFIC CONCEPTS, INC.

325 Gambrills Road  
Suite E  
Gambrills, MD 21054  
(410) 923-7101



MARYLAND DOT - STATE HIGHWAY ADMINISTRATION  
Office of Traffic & Safety  
TRAFFIC ENGINEERING DESIGN DIVISION  
GENERAL INFORMATION  
MD 272 AT LUMS ROAD

DRAWN BY: M.HOWELL	F.A.P. NO.	TS NO.	SHEET NO.
CHECKED BY: T.ZAYDEL	S.H.A. NO.	3510-2	
SCALE: 1" = 20'	COUNTY: CECIL	T.I.M.S. NO.	2 OF 2
DATE: 6-1-03	LOG MILE: 07027213.62	F846	